Journal of Graph Theory

Contents of Volume 21, 1996

Number 1, May 1996

Ramsey-Type Results for Oriented Trees
Y. Kohayakawa, T. Łuczak, and V. Rödl 1

Domination Critical Graphs with Higher Independent Domination Numbers
S. Ao, E. J. Cockayne, G. MacGillivray, and C. M. Mynhardt 9

The Average Steiner Distance of a Graph
P. Dankelmann, O. R. Oellermann, and H. C. Swart 15

Some Results on Graphs Without Long Induced Paths
J. Dong 23

On the Vertex Face Total Chromatic Number of Planar Graphs
W. Weifan and L. Jiazhuang 29

Covering Genus-Reducing Edges by Kuratowski Subgraphs
R. Brunet, R. B. Richter, and J. Siráň 39

On the Size of Graphs Labeled with a Condition at Distance Two
J. P. Georges and D. W. Mauro 47

A Degree Condition for the Existence of Regular Factors in $K_{1,n}$-Free Graphs
K. Ota and T. Tokuda 59

Strongly Hamiltonian-Connected Locally Semicomplete Digraphs
Y. Guo 65

VOLUME CONTENTS

Pancyclicity and Extendability in Strong Products
S. Ramachandran and R. Parvathy 75

A Short Proof of a Theorem on Hamiltonian Graphs
A. Ainouche 83

Degree Sequences of Graphs and Dominance Order
E. Triesch 89

Information for Contributors I

Number 2, June 1996

A Characterization of Panconnected Graphs Satisfying a Local Ore-Type Condition
A. S. Asratian, R. Häggkvist, and G. V. Sarkisian 95

Hamiltonicity of Regular 2-Connected Graphs
H. J. Broersma, J. Van den Heuvel, B. Jackson, and H. J. Veldman 105

A New Characterization of Graphs Based on Interception Relations
A. Paz, J. Pearl, and S. Ur 125

On the Embedding of Graphs into Graphs with Few Eigenvalues
V. H. Vu 137

A Reduction Criterion for Supereulerian Graphs
P. A. Catlin 151

On *d*-Diagonal Colorings
D. P. Sanders and Y. Zhao 155

Pancyclicity of Connected Circulant Graphs
Z. R. Bogdanowicz 167

The Spectrum Problem for the Petersen Graph
P. Adams and D. E. Bryant 175

Sufficient Conditions for a Digraph to be Hamiltonian
J. Bang-Jensen, G. Gutin, and H. Li 181

Colorings of Infinite Graphs Without One-Colored Rays
N. Polat 189

Number 3, July 1996

Subdivisions and the Chromatic Index of *r*-Graphs
K. Kilakos and F. B. Shepherd 203

Domination Numbers of Planar Graphs
G. MacGillivray and K. Seyffarth 213

Edge-Disjoint Cycles in Regular Directed Graphs
N. Alon, C. McDiarmid, and M. Molloy 231

The Crossing Number of $C_5 \times C_n$
M. Klešč and R. B. Richter, and I. Stobert **239**

Every 2-Choosable Graph is $(2m, m)$-Choosable
Zs. Tuza and M. Voigt **245**

Decompositions and Reductions of Snarks
R. Nedela and M. Škoviera **253**

Information for Contributors I

Number 4, August 1996

Distance Connectivity in Graphs and Digraphs
M. C. Balbuena, A. Carmona, and M. A. Fiol **281**

Packing T-Joins
P. Codato, M. Conforti, and C. Serafini **293**

New Characterizations of Digraphs Represented by Intervals
B. K. Sanyal and M. K. Sen **297**

Component Factors and Induced Subgraphs
T. Nishimura **305**

Tutte's 5-Flow Conjecture for Graphs of Nonorientable Genus 5
E. Steffen **309**

Vertex-Transitive Graphs that are not Cayley Graphs. II
B. D. McKay and C. E. Praeger **321**

On Avoidable and Unavoidable Trees
X. Lu **335**

Cartesian Products of Trees and Paths
H.-J. Bandelt, G. Burosch and J.-M. Laborde **347**

On Bounded Automorphisms of Locally Finite Transitive Graphs
P. Niemeyer **357**

Chromatic Polynomials and σ-Polynomials
C. D. Wakelin **367**

Author Index **385**

Volume Index I

Information for Contributors V